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LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 223

VINEGAR.

LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA.

BULLETIN No. 223

VINEGAR.

Ottawa, April 4, 1911.

W. J. Gerato, Esq., Deputy Minister of Inland Revenue.

Sir,— I beg to hand you a ramples of Vinegar, purchased by our aspectors throughout Canada in October of last

Analytical results appear in the case of only \$4 of these samples. The remaining 59 samples were lost in the fire which destroyed our laboratories on the 4th of January. Some work had been done upon most of these samples, but the records are not available, having perished in the fire.

It was intended that the work upon this collection, together with that published in Bulletins 35 and 168 should form a basis for the classification of Vinegar as found in Canada. The meagre results attained, make it impossible to attempt the carrying out of the original plan; and it will be necessary to wait until we can make another systematic inspection of vinegar.

Vinegar appears to be marketed in Canada as Malt Vinegar and Cider Vinegar, or simply as Vinegar, without any distinctive to that much of the vinegar offered is fundamentally a spirit vinegal additions of flavouring and colouring matter which imitate malt, cider and wine value are its the further suspicion that considerable amounts of acetic acid, made by the destructive distillation of wood, as a bye-product in the wood spirit industry, are employed in vinegar making, and, of course, without a knowledgment of the fact.

Provided that the acid so used is properly refined, it is identical with refined acctic acid from any other source, and is unobjectionable from the point of view of healthfulness. But, being entirely flavourless, it is not a vinegar, and cannot be sold as such unless artificially flavoured; when, if sold at all, it should be honestly labelled as artificial or imitation vinegar. There can be no doubt that the genuine vinegar industry suffers a serious handicap through the unfair competition of factitious substitutes for vinegar; or that the buyer who desires a genuine vinegar is frequently deceived by the substitution of a spurious article, whether with or without knowledge of that fact by the retailer. Nor can this undesirable condition of things be successfully met until a workable definition of vinegar, in the generic sense, is made legal; and until the various kinds of vinegar which are found in commerce, are recognized and defined by law.

The following scheme of classification and definition is to be regarded as a first attempt to bring that the into a shape in which we can deal with it. The definitions are very incomple that additional and require to have written into them animerical constants which have not yet been determined, and for the fixing of which it had hoped that the collection of vinegars now reported would have formed helpful material.

PROPOSED VINEGAR STANDARDS.

1. Vinegar is a liquid containing not less than 4 grams of acetic acid, nor more than 8 grams of acetic acid per 100 cubic centimeters; and when sold or offered for sale under a name which indicates a particular source, as Cider Vinegar, Malt Vinegar, Wine Vinegar, &c., it must be actually derived from such source.

2. Concentrated Vinegar, Vinegar Essence, &c., is a liquid containing more than 8 per cent of acetic acid, and must contain nothing which, when it is diluted to the

strength of vinegar, and used as such, is harmful to health.

(Consider a limit to reducing impurities, &c.)

 Spirit Vinegar, Alcohol Vinegar, &c., is vinegar made by the acetous fermenta tion of diluted distilled alcohol.

4. Wine Vine ar, is vinegar made by the alcoholic and subsequent acctons fer-

mentation of the juice of sound, ripe grapes.

5. Malt Vinegar, is vinegar made by the alcoholie and subsequent acctous fermentation, without distillation, of an infusion of malt with or without the addition of other starchy or succharine materials.

6. Cider Vinegar, Apple Vinegar, is vinegar made by the alcoholic and subsequent

acetons fermentation of the juice of sound, ripe apples.

7. Sugar Vinegar, is vinegar made by the alcoholic and subsequent acctous fermentation of a solution of sugar.

8. Glucose Vinegar, is vinegar made by the alcoholic and subsequent acctous

fermentation of a solution of glucose or glucose syrup.

9. Acetic Acid Vinegar, is vinegar made by the proper dilution of pure acetic acid with water.

10. Blended Vinegar, is vinegar made by a mixture of two or more of the above species of vinegar.

Note.—Imitation Vinegar, is vinegar made from dilute pure acetic acid, flavoured to imitate any of the above kinds of vinegar; and may have the name of the kind of vinegar imitated, added to the words "Imitation vinegar." Thus, Imitation Malt Vinegar: Imitation Wine Vinegar, &c.

NOTE.

1. When vinegar is asked for, it is held legally proper to supply any one of the above named species. When a specific vinegar is asked for, it is unlawful to substitute another kind, without declaration of the fact.

Numerical values will be fixed for the different species of vinegar, as soon as this
Department is in possession of trustworthy data sufficient to justify such action.

?. Acetic acid means the hydrated acid, $C_4H_0O_3+H_2O=2C_2H_4O_2$. Molecular weight = 60.

One cubic centimetre of a normal solution contains 60 milligrammes of acetic acid. Of the samples which I am now able to report upon, 18 are sold as Cider Vinegars; 17 as White Wine Vinegars and 8 as Malt Vinegars. If the composition of these various species of vinegar, as herein recorded, be tabulated under the above headings; it will be evident that, either there is great indefiniteness in the composition of a vinegar species, or most of the samples are not true to name.

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Vinegar robable tions of here is ructive

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2150 2153 2154 2155 2159 3021 3829 3349 3550 3853 3855 3855 3856 3857	Acetic Acid.	Solida p. c.	Ash p. c
2163 2154 2155 2159 3021 9220 3021 9220 3349 3350 3355 3355 3357 4044 414 456			
2154 2155 2159 3021 3349 3549 3550 3655 3656 3657 4644 4740	2 69	1/302	0.505
2155 2159 9021 9020 8349 8350 8355 8355 8357 4044	3 98	0.722	0.078
11.59 3021 9020 3049 3049 3050 3053 3055, 3056, 3057, 4044 4740, 4156,	4168	2:418	(1,30)
901 903 3849 3850 3853 3855 3857 4044 (740	4 36	2:206	0.364
2020 3349 3353 3353 3355 3357 4044 456	4 GH	2 768	0:374
8349 8350 8353 8355 8357 1044 1740	1 51	0.168	0.026
3850 3853 3856 3857 4044 4740	2.95	1:828	10,3664
\$353 \$355 \$857 \$857 \$454 \$456 \$156	4:63	2:370	0.384
855. 856. 887. 044. 740.	4:63	1 144	0.432
\$156 \$357 044 456	3:86	4.728	0:256
8857 1044 1740	3 98	2:348	0 314
041 770. 356.	3 93	2:152	0.328
740 456	2 52	1 766	0 416
4740,	4 13	O 996	0.094
456.	1.80	2 654	
	5 37		0.280
158		2 038	0.254
433	4 77 4:17	2 0 (2 2 190)	0 316 0 216

The requirements of the United States Standards for Cider Vinegar are, 4 per cent acetic acid, 1-6 per cent solids and 0-25 ash, as minima.

WHITE WINE VINEGARS.

	==	Acetic acid.	Solids p. c.	Ash p. c
4		3 55	0.082	0 017
12		4:94	0.612	0:060
,		4 51	0*(614	0.018
<u> </u>			0.204	0.044
25		3:48	0.144	0.029
	the state of the second	3:07	10.2.1	0:012
\$4.7 ₆ .	· · · · · · · · · · · · · · · · · · ·	1:40	0:156	0:032
	the state of the s	5 23	0 184	0.026
4 .	the second control of	3 86	0.038	0.000
8		3:16	0:056	0.004
87 เอ๊	***************************************	4:46	0.112	0.016
	tite transfer to the contract of the contract	5:21	0.759	0:032
		5:13	0.136	0:020
		3:94	1:968	0.228
		2:67	0 090	0.018
	**	5139	0:450	0.072
		4168	1:804	(0.212

The United States requirements for Wine–Vinegar are 4–per cent acetic acid; 1.0 per cent solids and 0.13 per cent ash.

MALT VINEGAR.

	Acetic acid.	Solids p. e.	Ash p. c
21 %(:			
2156	4:46	2:248	0.396
		0.050	0.010
5923	2:77	2:168	0.306
		0.928	0:054
928 451	4 171	1.686	0:476
451	3:84	(0.150	0.016
	. 4.08	2:383	6:178
0104	4:90	2:280	0 248

The United States requirements for Malt Vinegar are 4 per cent acetic acid; 2

per cent solids and 0.20 per cent ash, as minima.

The U. S. standards quoted have been called in question, as being unfair to the manufacturer, and as being insufficient to protect the consumer. It must be confessed that the great variability of composition exhibited by commercial samples of vinegar, purporting to be of the same species, makes it very difficult to give an exact and effective description of vinegar species. I understand* that the U.S. Department of Agriculture is making a first hand study of Cider Vinegar in order to establish its constants. Something of this nature seems to be needed as regards other than Cider Vinegars, and we shall endeavour as far as possible to obtain data which may help in this connection.

I beg to recommend the publication of this report as Bulletin No. 223,

I have the honour to be, Sir,

Your obedient servant,

A. McGHL, Chief Analyst.

* Pure Products, Dec. 1910, p. 709,

r cent

i p. c.

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 $\frac{364}{384}$ $\frac{132}{132}$

p. c.

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In th.	N.			Cost.	Name and Address of Manufacture or Furnisher as given by the Vendor.
late of Collect	Nature of Sample,	No. of Amph	Name and Address of Vendor,	Panastary.	Manufacturer. Furnisher

DISTRICT OF NOVA SCOTIA

1910	Э,					
Oct.	17	Vinega	r	42150 J. F. Crowe & Co., 12 pts. 5 Annapolis VinegarCo., Manufac	turer .	
"	17			Ltd, Halifax, N.S. Bridgetown, N.B. 42151 " " " " 1½ " 5 D.W.Wilson, Toronto "		
"	17	- 11		42152 Nat. Drug & Chem. 1½ a 5 Vendors. Co., Halifax, N.S.		
1+	17	11		42153 " " 13 " 5 · · · · · · · · · · · · · · · · · ·		
11	17	**		42154 T. J. Brown, Halifax, 13 a. 11 M. W. Grages & Co., Manufact	turers	
11	17	11		N.S. Bridgetown, N.S. Bridgetown, N.S. Halifax, N.S.		
	17	н	٠٠.	42156 City Provision Store 1 of 20 Gandle & C. ton Inc. T. a	in & Co	
1+	17	1+		Halifax, N.S. don, Eng. Halifax, Manufact 42157 F. W. Hodgson, Hali-1 10 E. Tracey, Halifax, Manufact	i. Illrera	
1+	15	- 11		42158 E. S. Tracey, Halifax, Hpts. nil Vendor N.S.		
11	20	"	٠	42159 S. L. Cross, Kentville, 1) a. 6 Stand, Vinegar Co., Manufact Berwick, N.S.	mrers	
					_	

DISTRICT OF PRINCE EDWARD ISLAND

Sept. 12 Vinegar. 45921 P. A. Smith, Charlotte-1 qt town. 14 Thos. McCready, St. dohn, N.B. a 13 45922 S. P. Dmfy, Charlotte-town. 12 J. A. Fare Charlotte-town. a 13 45923 Jno. McKenna, Charlotte-town. 14 14	
13	
13	quharson,
	d, Char-
15 "	
" 15 " 45925 Geo. Rackham, Char-1 " 12 Carveff Bros., Char-	
" 16 " 45926 Geo. Forbes, Vernon 1 " 14 [Carvell Bro	ж., Char-
" 16 " 45927 J. T. Morrissey, Ken-1 " 18 J. A. Farc	quharson.
" 17 " 43928 Jas. St. C. Moore, El 1 " 22 And Bros	., Char-
23 45929 Jas. Kennedy, Ken-1 14 Excelsior Vinegar Co.,	
sington. 3t. John, N.B. St. John, N.B. H. J. Heinra, Pitts- burg, Pa.	

VINEGAR.

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professional religion				. Кыл	er Lips (1921AN	Allysjs,			
Inspector's Report, (Is not an expression of opinion),	Acris Acid, C,H,O;	Solide in 1000 oc.	Ash in 100 cc.	Reaction of Ash	Chernes.	Sulphates.	Reaction with Sulphuretted Hydrogen.	Alcol of to: Weight	No. of Sample.

R. J. WAUGH INSPECTOR.

Million and the second		-	-	1				-,-
	p. c.	р. с.	p. c.				1), C',
Cider vinegar	2.60	1 301	0.202	Alkaline	Trace		None	42150
White wine vinegar,	3155	0 182	0 1117		N.	her, Liter,	"	42151
	4:91	0.612	0.000		Tra.			42152
Cider vinegar	3:99	0.722	0.078		Slight	**		42158
и	1168	2.118	0.300		Trace,	н ,		42154
	4 36	2.200	0:368	1 11	!] ** ••• •			42150
Malt vinegar	4:46	2 248	0 396	Neutral	Distinct	Consider		42156
Labelled pure malt	3 22	6 050	0.010	Alkaline	None	able trace. Trace		42157
White wine XXX	4:51	0.014	0 018	"		None	н	42158
Cider vinegar	4 68	2:768	0:371		Trace	Slight		42159

THEO, MOORE, INSPECTO?.

1			1					
XXX cider vinegar.	4.51	6	0.026	Alkaline	Trace		None	. 45921
White wine vinegar.	5188	0 504	0.044	1 **		trace.		45922
Malt · inegar	2:77	2.168	0.306		Distinct		None	45923
	3 96	0.928	0.054	"	trace,	trace,		45924
White wine vinegar	3148	0.144	0.024					45925
Malt vinegar	4 '01	1.686	0.176					45926
White wine vinegar	3.07	0.076	0.012					45927
Malt vinegar	3.84	0.150	0.016	., .,				45928
Cider vinegar	2.95	1:828	0:364	" .	Distinct	Distinct		. 45929
White wine vinegar,	4 · 40	01156	0.032		trace.	trace.		45930
							1	

		-				
	ection.	Nature	<u></u>	Cost		Name and Address of Magnifacturer or Furnisher as given by the Vendor.
	Date of Collection.	of Sample	None and Address of Vendor.	Quar. 11;	Cents	Manufacturer, Furnisher.
						DISTRICT OF NEW BRUNSWICK
19	10	1				
	t. 20	Vinegar.	15210 (1) 7			
r «Cp»	20	v megata.	Se 1 July 31 D	, 1 qt	10	0 Vendor
"	20	: ' *	45350 The Excelsior Vinegar Co., St. John, N.B. 45351 The Excelsior Vinegar Co., St. John, N.B. 45352 T. McCready & Sons	r 1 ii	10	P
*1			45351 The Excelsior Vinegar Co., St. John, N.B.	1 0.	10	• • • • • • • • • • • • • • • • • • •
99	21	**	Ltd St John V P	"	2 11	
11	21	10	45606 McTherson Bros St	1	10	Baird & Peters, St.
19	21	**	45354 Harry G. McBeach, St. John, N.B.	1 1	0	Baird & Peters, St. John. Co. Ltd., Stouffville,
Oet,	4	1*	. 45355 11. C. Jewett, Frederic-	1 1	10	Ont. M. W. Graves & Co.,
11	.5	**	45356 John Graham Estate,	1 0 . 1	ŧ1	Bridgetown. M. W. Graves & Co.
11	17	03	1 45357 G. F. Smith, Sussex,	1 1	0	Bridgetown, F. P. Reed & Co.
	18	9	45358 2 Barkers, Ltd., Moneton, N.B.	1 1	()	M. W. Graves & Co., Bridgetown, M. W. Graves & Co., Bridgetown, F. P. Reed & Co., Ltd., Moncton, C undian Beverage
_						N.S.
						DISTRICT OF QUEBEC-
Sept.	19	Vinegar.	36316 Hamel & Bedard, 728 Rue St. Valier,	1½ pts 1	3	St. Lawrence Co Manufacturers
**	20		36317 A. Rinfret, 114 Rue	11	3	Unknown Parist & A.
**	20	*1	St. Joseph, Quebec. 36318 A. Rinfret, 114 Rue	13	9	Dovins & Grenier
	211	**	St. Joseph, Quebec. 36319 Cantin & Frere, 271 Rue St. Joseph	12 . 1.	5	Unknown Bovinis & Grenier " Eureka Vinegar Manufacturer
-14	21	19	rene of the steepper	15 1	5	n
**	21	f+	36321 Cantin & Frere, 271	$1\frac{1}{2}$ is $\frac{1}{2}$ 20)	0
11	22	14	36322 O. Lacroix, 19 Rue St.	bot. 2	,	Hold Brocks, London, J. B. Reneand & Cie.
**	22	10	doseph, Quebec, 36323 O. Lacroix, 19 Rue St.	l n . 17		111 6
ч	22	**	Joseph, Quebec. 36324 O. Lacroix, 19 Rue St. 1	11 95		T. Cessat, Bordeaux. Lovet Frere & Co., U. Francoeur, Quebec.
11	22	0	36324 O. Lacroix, 19 Rue St. 1 Joseph, Quebec, 36325 O. Lacroix, 19 Rue St. 1 Joseph, Quebec,	½ pts. 15	. :	Bordeaux. St. Lawrence Co Manufacturers

RESULTS OF	Anatasis,	
· Care		

Inspector's Report. (Is not an expression of opinion)

Acetic Acid C, H,O,	Solids in 100 c. c.	Ash in 100 c. c.	Reaction of Ash.	Chlorides.	Sulphates.	Reaction with Sulph- uretted Hydrogen.	Alcohol by Weight.

J. C. FERGUSON, INSPECTOR.

	p.c.	p.c.	p.c.					
Apple Cider Vinegar $ \cdot $	4 63	2:370	0:384	Alkaline.	Trace		None	. 45349
Cider Vinegar	4:63	1:114	0 152		None	trace, Trace ,	1	45350
Spirit Vinegar								. 45351
White Wine Vinegar	5:23	0.184	0.056	Alkaline.		None		45352
Ci ler Vinegar					Slight	Distinct		
White Wine Vinegar .	3 86	0.038	0.006	10	trace.	None		45354
Apple Cider Vinegar.	3 93	2 348	0 344	**		• • • •		45355
Apple Cider Vinegar.	3.93	2:152	0:328					45356
Cider Vinegar, (Pyra- mid Brand.)	2:52	1:766	0.416		Distinct traces.	Distinct	None	1
White Wine Vinegar	3.16	0.020	0.004	"		None		45358

E. BELAND, INSPECTOR.

1		-			
	7:48] 0:370	0°040 Neutral	None Distinct traces,	None	36316
	7:72 0 412	0-064 Alkaline	Distinct "		36317
	5:40 0.272,	0.032, "	Trace Distinct		36318
	8 37 0 244	0:060 "	trace,		36319
	7:92 0:182	0 041	None None ,	e	36320
	3 50 3:712	0 460	Distinct C'usid'rble traces, amount.	· · · · · · · · · · · · · · · · · · ·	36321
	5:40 3:531	0:364	Trace "		36322
	9 67 10 530	1	C'nsid'rble Distinct		36323
	6.25 0.519	0 044 "	None Trace		36324
	6 88 0 320	0.026	Distinct Distinct traces.	**	36325

Nature 3			Co	sT.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.		
of Sample.	No. of Sample	Name and Address of Vendor.	mantity.	ents.	Manufaeturer.	Furnisher.	

DISTRICT OF ST. HYACINTHE

191	0			
Sopt.	17	Vinega	r	41043 R. O. Brodeur, St. Hy 1 qt. 13
o	19			41044 May & Houliban, Shere 1 10 brooke.
**	19			41045 Alfred Lanctot, Sher Lo. 7
11	19	**		41046 Bernard & Co., Sher 1 10
11	19	1+		41047 Theriault & Leclerc, 1 10 Sherbrooke.
-11	19	**		41018 N. Lacroix, Sherbrooke 1 a 10
**	20	• "		41049 Biron & Blouin, Sher 1 10 Wilson, L.B., Toronto
н	20	11		41050 W. B. Murray, Sher-Lu 10
0	20	16		41051 V. Archambault, Sher- Lo 10
71	20	11		41052 Hebert & Fortier, Sher-1 , , , 10
	4			in the state of th

DISTRICT OF MONTREAL

Production.			-		
Sept.	14	Vinega	r	40739 L. S. Guay, 124 Sher-1 qt 15 brooke W. Montreal	
11	14	**		40740 Hutton Bros., St. An-1 15 Robt. Millar, Montrea tbine St., Montreal.	
**	14			4074) Joseph Landry, 683 St. 1 10 James St., Montreal	
1+	15	11		40742 A. Menard, 20 Prince 1 10	
10	15			40743 d. E. Lemay, 325 Clark 1 10	
*1	15	**		St., Montreal. 40744 Swift's Provision Store, 1 15 2000 Waverly St.,	
19	15	*1		Montreal. 40745 E. Martin, 203 Laurier 1 n 7	
10	16			40746 Willison Bros., 201 15	
	4.11		ì	Montreal.	
"	16	**	• •	40747 P. Daoust, 276 Sher-1 15 brooke St. W., Mon-	• • • • • • • • • • • • • • • • • • • •
11	16	11		treal. 40748 M. O'Reilly, 58 James 1 15 St., Montreal.	

	RESULTS OF ANALYSIS,									
Inspector's Report. (Is not an expression of opinion.	Acrtic acid C, H,O,	Solids in 100 cc.	Ash in 100 cc.	Reaction of ash.	Chlorides.	Sulphates.	Reaction with Sulphuretted Hydrogen.	Alcohol by weight.	No. of Sample.	

J. J. COSTIGAN, ACTING INSPECTOR.

					_		1			 	
1	p.c.	p.c.	p.c.							p.e.	
•••	5:23	0.260	0.015	Alkalıne.		Trace	Trace.		None.	 0.89	41043
Cider Vinegar	4 · 13	0.996	0.094	11		Distinct	Disti			 0.11	41044
•••	4:32	0.508	0:070	**		Present	Trace.			 0.37	41045
· · · · · · · · · · · · · · · · · · ·	6.00	0.126	0.026	0		None			11	 0.42	41046
···· · · · · · · · · · · · · · · · · ·	4.02	0.115	0:018	11					"	 Trace	41047
• • • • • • • • • • • • • • • • • • • •	4 08	9.086	0.015	14		trace.			**	 0.32	41048
*** ***********************************	4 14	0.106	0:020	п		и.			**	 0.26	41049
• • • • • • • • • • • • • • • • • • • •	4:06	0.106	0:028				94	•		 0.16	41050
	4 13	0:104	0 014	**	•		1		11	 0.16	41051
	5.88	0 140	0.028	41	. ;		14		**	 1.00	41052

J. J. COSTIGAN, INSPECTOR.

White Wine Vinegar.	4:46 0:11	2 0:016	Alkaline	None	Trace 2	None	0:53	40739
Cider Vinegar	4.80 2.65	4 0 280				b1	0.26	40740
••••	4:90 0:18	6 0:020		Trace	"	"	0.11	40741
	4:63 0:14	4 0.044	н.		Slight trace.		6.11	40742
	5.04 0.74	6 0:030		Slight trace.			0.11	40743
•••••	5:18 0:15	4 0:012	" .	None		" · · · :	0.11	40744
*	6:62 0:06	0 038	".	"		"	0.35	40745
XXX	4168 0122	0.010	11 .	"		"	0.16	40746
	5:16: 0:28	4 0:010 1	".	Trace		61	0.28	40747
	6:60 0:14	6 0:048	٠.,	н			0.26	40718

:	dection.	Nature of Sample.	Name and Address of Vendor,	Cost,	er Finnishe	of Manufacturer as given by endor.
2	Date of Collection.	country,	Name and Address of Vendor.	Quantity.	Manufacturer.	Furnisher,
					DISTRI	CT OF OTTAWA-
1:	Ha,			ı		The second of th
Sep	t. 1 3	Vinegar	43431 McCuaig Cheney & Co Vankleek, Hill	o., 1 qt 10	Wilson Lyttle and	Manufactur
**	13	** .	43132 Cameron & Downin			
4	24	**	Vankleck Hill, 43133 P. J. Campbell, Re- frew.	n-1 10	Montreal, Wilson Lyttle and	Montreal.
	21	н	43134 Stewart Bros. & Co		Canadian Vinegar Co	Mathewayn's Sour
н	26		43135 L. Frair, Somerset at	t., 1 1t	Montreal, nknown	Montreal.
	216		Ottawa. 43136 A. P. Johnson, Bronse			
	26					H.N. Bate & Sons, Ltd., Ottawa.
	26	" ,,	43137 T. Bowman, Somers St., Ottawa. 43138 N. S. Schwerdfage Ottawa.	et 1 a 10	"	
.,	27	"	Ottawa.	т. 1 13	Wilson Lyttle and Badgerow, Toronto	Manufacturers
	27	.,	43139 Lapensee & Lather Albert St., Ottawa.	r, 1 10	Unknown,	H. N. Bate, Sous, Ltd., Ottawa.
		1	43140 W. Farmer, Wellingto	m 1 7	**	1) 11
-				-	DISTRICT	OF KINGSTON-
Oct.	5 \	in gar	46554 D. B. Murray, King- ton.			
**	5	"	46555 S. T. Kirk, Kingston,	. 1 o 10	D. B. Murray, Kings-	
14	ä	*1	46556 J. Crawford, Kingsto			
*1	ï		46557 B E Hopkinson Kingston	,1 10		Fewick and Hendry
**	ī		46558 Geo. Gibson, Kingston	n 1 10	D. D. M., 125	CD., Kingston.
	,	15	46559 H. M. Stover, Kingsto	n 1		A. Maclean, Kings
41	í	н ,	46560 W. J. Armel, Alfar	11 10	D. D. M., 122	- ton.
**	ĩ		St., Kingston, 46561 W. H. Medley, Kings ton,			
	(46562 N. J. Nesbitt, Kings ton.			
*1	ī		46563 C. H. Pickering, Kings ton.	· 1 a 10 .		teo. Robertson, Kingston.
					DISTRICT	OF TORONTO
Sept.	10 V	inegar	45149 Thos. B. Franklin, 643 Queen St., Toronto	31 qt. 25 t	'nknown	
14	9,		45150 The Queen City Vinegar Co. Ltd., 19 River St., Toronto . 45151 The Wilson Lytle Bad	1 0 10 \	endors	
**	9		45151 The Wilson Lytle Bad- gerow Co. Ltd., Front St., West Toronto			

				RE	SULTS OF AN	MASIS.			
Inspector's Report, (1s not an expression of equation).	Acrtic Acid.	Solids in 100 cc.	Ash in 100 cc.	Reaction of Ash.	Chlorides.	Sulphates.	Reaction with Sulphur-sted Hydrogen.	Alcohol by weight.	No. of Sample.
J. A. RICKEY, INS	PECT	OR.				"-			
White Wine Vinegar									4***
Crarified Proof Vinegar		0:180	D 626	Alkaline	. Trace	T	Slight		4313
XXX White Wine						r race	darkening	0.71	4313 4313
									4313
Cider Vinegar				ļ	фия и .		!.		4313
Malt Vinegar					.; .,				4313
				ļ					4313
									4313
	4:01	0:442	0 024	Alkaline.	Trace	None	None	0:16	
	3 96	01:346	0-026				1		4314
JAS. HOGAN, INSPI	ECTO	R.			1 1				
							••••••••		4655
**** ********	• • •	• • •					• • • • • • • • • • • • • • • • • • • •		46558
							• • • • • • • • • • • • • • • • • • • •		46556
			• • • • •				• • • • • • • • • • • • • • • • • • • •		46557
		[
							• • • • • • • • • • • • • • • • • • • •	•••••	
						• • • • • • • • • • • • • • • • • • • •	•••••••••••		46559
						• • • • • • • • • • • • • • • • • • • •			46559 46560
									46559 46560 46561
									46569 46560 46561 46562
									46559 46560 46561
L J. DAGAR, INSPI	ECTO	3.							46569 46560 46561 46562
abelled Franklin's Imported English Malt Vinger	ECTO	3.							46569 46560 46561 46562
Imported English Malt Vinegar			0.008	Alkaline,	None	Sone	None	0.02	46561 46562 46563 45149

Collection		Nat of		mple.	Name and Addr		DST.		Mannfacturer	Address of or Furnisher, the Vendor.
Date of Collection		Samp	let.	No. of Sample	от у списи,	Quantity,	Centr		Manufacturer.	Furnisher.
									DISTRI	CT OF TORONTO
1910	١.				-		1			
Sept.	19	Vinega	r	45152	Dominion Vinegar	r Co., 1 at .	1	0 Ve	ndor«,	
	19	11	• • • •		Tranniton The Imperial Vir & Pickling Co.	iegar I Lid.		,0	"	
	21	16		45154	Hamilton W. J. O'Brien, 94 St., North Toror	Jas. 1	. 1	5	**********	Imported from Et
	22		;	45155	W. McKim. Ora	ange-1 a.	1	n Sti	mlard Vinegar Co.	**** * ** *****
	11.)	- 11		45156	ville Taylor Pringle Co.	Ltd. 1			ad., Stouttville.	
	26	11	• • • •	45157	Owen Sound J. M. Cook, 459 Co	llege 1		$\mathbf{e}^{!}\mathbf{r}\mathbf{h}$	Queen, City Vine-	;
	26	"	,	45158	St. Toronto W. B. Pringle, W)	oitby 1 "		e Tj	ar Co. Ltd, Toronto Whitby Fruit & inegar Co., Whitby	
									gas - was a	
									DISTRE	CF OF LONDON
Sept.	21 \									
		megaa	٠	41623.	Jackson & Son, Gu	cloh 14 ors.	. 19	ı Wi	son & Little Toy.	
	30	.,			lackson & Son, Gu lanos Cutt, Blytla			1.0	son & Little, Tornto	
		.,		44650 .	lanes Cutt, Blytle	e1 pt	10	٠	ato	Elliott Mar & Co London
Det.	30			44650 . 44656 C	lanos Cutt, Blytle leo. Nairu, Winds	e1 pt or1 n	10	• • The	Bell Vinegar Co.,	Elliott Mar & Co
Det.	30 7	o ,	•••	44650 : 44656	lames Cutt, Blytle fen. Nairn, Winds McCornick & S. London.	e 1 pt or 1 m o n, <u>k</u> m	10 10	The The Hung Hung	Bell Vinegar Co., elleville serial Vinegar Co., amilton	Elliott Mar & Co London
Oct.	30 7 12	a .	•••	44650 : 44656	lames Cutt, Blytle fen. Nairn, Winds McCornick & S	e 1 pt or 1 m o n, <u>k</u> m	10 10	The B Unit Unit Vil	Bell Vinegar Co., elleville serial Vinegar Co., amilton	Elliott Mar & Co London
Det.	30 7 12	a .	•••	44650 : 44656	lames Cutt, Blytle fen. Nairn, Winds McCornick & S. London.	e 1 pt or 1 m o n, <u>k</u> m	10 10	The B Unit Unit Vil	Bell Vinegar Co., ellestille serial Vinegar Co., amilton son, Little & Co., oronto	Elliott Mar & Co
Oct.	30 7 12 12	a .		44650 + 44656 C 44660 2 44664 2	lames Cutt, Blytheien, Nairn, Winds de Cernick & S. Lenden	e 1 pt	10	The	Bell Vinegar Co., elleville sernal Vinegar Co., amilton son, Little & Co., oronto	Elliott Mar & Co London
Oct.	30 7 12 12	0	-	44650 . 44656 C 41660 2 4364 2	lames Cutt, Blytle fen. Nairn, Winds McCornick & S. London.	e 1 pt or 1 n or ½ n 2 n lon, 3 bots.	10	Be Bell	Bell Vinegar Co., elleville sernal Vinegar Co., amilton son, Little & Co., oronto. DISTRIC De ville Vinegar Do., Belleville, eville Fruit &	Elliott Mar & Co London
Sept. 1	30 7 12 12 12 13 V	0		44650 . 44656 C 44660 ? 44664 ? 	lames Cutt, Blytheien, Nairn, Windsde Cermick & S. Lenden,	e 1 pt on, ½ o ion, ½ o lon, 3 bots. on-5 o	16	Bell V	Bell Vinegar Co., elleville serial Vinegar Co., amilton son, Little & Co., oronto. DISTRIC DISTRIC be ville Vinegar D., Belleville, eville Fruit & inegar Co., Belleville.	Elliott Mar & Co London
Sept. 1	30 7 12 12 13 V	inegar	4	44650 . 44656 C 44660 Y 44664 Y 42432 F 42433 C	lames Cutt, Blytla ien, Nairn, Winds de Cormick & S. Lenden, dr. Flenden, dr. Flenden, L. J. Wood, Lend Out, don, Out, conty Bros , Lond Out, tuney Bros , Lond tuney Bros , Lond	e 1 pt on, 1 n on, ½ n lon, 3 bots. ion, 3 n	10 10 10 10 10	Bee Bell Vi	Bell Vinegar Co., ellevalle serial Vinegar Co., amilton son, Little & Co., fronto. DISTRIC ble ville Vinegar Co., Belleville, eville Fruit & inegar Co., Belleslle, son, Lyttle & Badrow, Toronto.	Elliott Mar & Co London
Sept. 1	7 12 12 13 V	inegar	4	44650 . 44656 C 44660 ? 44664 ? 42432 F 42433 C 42434 F 42435 F	lames Cutt, Blytheien, Nairn, Winds McCermick & S. Lendon,	e 1 pt on 1 n on ½ n on ½ n lon, 3 bots. on. 5 n lon, 3 n	16 16 16 16 16 10 10	Bee C. Bell V. Vi. Wil. ge. R. C.	Bell Vinegar Co., ellevalle serial Vinegar Co., amilton son, Little & Co., oronto. DISTRIC ble ville Vinegar D., Belleville, eville Fruit & inegar Co., Belle, lle, son, Lyttle & Badrow, Toronto.	Elliott Mar & Co London
Sept. 1	30 7 12 12 13 V	inegar	4	44650 . 44656 C 44656 C 44660 M 44664 M 42432 F 42433 C 42434 F 42435 F 42436 E 42437 E	lames Cutt, Blytheien, Nairn, Winds McCermick & S. Lenden,	e 1 pt on, 1 n on, ½ n lon, 3 bots, on-5 n lon, 3 n lon, 3 n	10 10 10 10 10 10	Bee Bell Vii Will ge R. C. S. A	Bell Vinegar Co., elleville serial Vinegar Co., amilton son, Little & Co., foronto. DISTRIC DISTRIC Serial Vinegar Co., Belleville, eville Fruit & inegar Co., Belleville, son, Lyttle & Badrow, Toronto. Lin, Norwich	Elliott Mar & Ce London
Sept. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30 7 12 12 13 V 13 V 13 (3)	inegar	. 4	44650 . 44656 4 44656 4 44666 1 44664 1 44664 1 44664 1 44664 1 44664 1 44664 1 44666	lames Cutt, Blytla ien, Nairn, Winds de Cornick & S. Lenden, lt. Flenden, lt. Flenden, lt. Flenden, lt. Flenden, cont. lt. Wood, Lend Out, lt. Guney Bros., Lond Out, lt. S. English, Lond Out, S. Garner, Lond Out, Garner, Lond	e 1 pt on, ½ o lon, 3 bots. ion, 3 o lon, 3 o lon, 3 o lon, 3 o lon, 3 o	10 10 10 10 10 10 8	Bee Bell Vii Will S. A.	Bell Vinegar Co., elleville ernal Vinegar Co., amilton son, Little & Co., oronto. DISTRIC DISTRIC lle ville Vinegar D., Belleville, eville Fruit & inegar Co., Belleslle, son, Lyttle & Badrow, Toronto. Earner, London M. Vandernade, indon.	Elliott Mar & Co London
Sept. 1 0 1 1 1 1 1 1 1 1 1	30 7 12 12 13 V 13 V 13 13 13	inegar	4 4	44650	lames Cutt, Blytla ien, Nairn, Winds de Cormick & S. Lenden, Mr. Flenderg C. J. Wood, Lend Out, lullis & Fleming, I don, Out, cuney Bros., Lond Out, L. S. English, Lond Out, & O. Bong, Lond Out, Out, Out, Out, Out, Out, Out, Out,	e 1 pt on. 1 n on. ½ n lon, 3 bots. aon. 5 n lon, 3 n lon, 3 n lon, 3 n lon, 3 n	10 10 10 10 10 10 8	Bee Bell Vii Will S. A.	Bell Vinegar Co., ellevalle ernal Vinegar Co., amilton son, Little & Co., oronto. DISTRIC ble ville Vinegar Co., Belleville, eville Fruit & inegar Co., Belleville, eville, won, Lyttle & Badrow, Toronto. armer, London llin, Norwich M. Vandernade,	Elliott Mar & Co London

	1			RES	CLIS OF A	NALYSIS,			
Inspector's Keport, (Is not an expres- sion of opinion.)	Acrtic Acid. C.H.O.	Solids in 100 c. c.	Ash in 10st c. c.	Reaction of Ash.	Chlorides.	Sulphates.	Keaction with Sulph- uretted Hydrogen.	Alcohol by Weight	No. of Sample.
H. J. DAGAR, INSI	ECTO	R Co	nimuea	1.					1
	p c.	p.e.	ре			n and the same of		p.c.	1
XXX Vinegar	4.82	0 140	0.012	Alkaline.	None	. Slight	None,	·	4517
XXX Vinegar	5 30		0 008			trace,		0.11	
Labelled Champion Celebrated Pure Malt	4:90	2 200	0.248	11	Considerabl ppte.	· Ppte	; ; "	0.00	4515
Vinegar XXX English White Wine Vinegar	5:21	ъ. 7 50	0:032	11 .	Slight	Slight		0.26	4615
XXX Cider Vinegar	5:31	2.038	0 254	u	trace. Traces	Trace		0 16	4515
XXX White Wine Vinegar	5.13	0.136	0.050					0.11	4515
XXX Cider Vinegar.	4:77	2 642	0.316		Slight trace.	Slight trace.	н	0.11	4515
					••••••••••••				4465 4465 4466 4466 4466
INO. TALBOT, INSP		7					1		_
XXX White Wine Vinegar. XX Cider Vinegar		2.190		Alkaline	Slight trace.	Trace Slight trace.	None	0.11	42432 42433
XXX White Wine		:							42434
		•••••	• • • • •	•••••		• • • • • • • • • • • • • • • • • • • •			42435
Vinegar, old as White Wine				• • • • • • •					42436
Vinegar,									42437
endor stated sample									42440

Collection.	Nature			Co	ST.	Name and Manufacturer as given by t	or Furnisher
Date of Colle	of Sample.	No. of Sample	Name and Address of Vender.	Quantity.	Cents.	Manufacturer,	Fuciasho ,

DISTRICT OF MANITORA

				The state of the s	
191	0		i		
Nov.	45	Vinega	ar.,	45845 Mrs. J. R. Wallace, 1 qt., 10 The Blackwood, Ltd., Unk	nown.
**	D	11	:	Winnipeg. 45846 A. Ingram, Winnipeg. 1 a . 10 Winnipeg.	h
4.	15	- 0	!	45847 M. Feinstein, 737 Stella Lo	mfacturers ,
	15	11	. 1	Ess S Wachmay, 663 Stella I a 10 Unknown We St., Winnipeg.	
6.1	15	0		45849 S. Ginsberg, 661 Stella I a 10 The Dyson Co., Win-Unk	innipeg. nown.
4.0	16	•1		St., Winnipeg. St., Winnipeg. 1 a. 10 mipeg. The White Star Mann-facturing Co., Win. W	Incdonald & Co
**	16	11		15851 P. Nelson, Winnipeg. And 5 The Blackwood, Ltd., Unk	
-11	16	**	• •	45852 S. J. Deroche, Winnis I a 40 The White Star Mann facturing Co., Win-	и ,
	16	¢+		45853 The Dyson Co., Winni- Landmil, Vendors, Man	nfacturers
**	16	H		45851 The Dyson Co., Winni- Louissian Co., peg.	"

DISTRICT OF CALGARY

Sant	+7*2	Visuma		(1044 D 22 (1)
The		* mega	r.,	43944 R. V. Shaw & Co., 1 qt., 20
11	23	**	٠.	East Calgary. East Calgary. Calgary. Calgary.
1+	23	"	!	43946 R. J. Friedly Roads and and and
11	27	**	• •	Calgary. 43947 Georgeson & Co., Ltd., 1 20 Wilson, Lyttle & Badgerow Co., Toronto. Calgary. Calgary.
11	27	**		13948 L. T. Mewlann & Co. 1 no rece
11	27	**		Ltd., Calgary. 43949 G. F. & J. Galt, Ltd., L 20 Vison, Lyttle & Badgerov. Co., Toronto. Calgary. 20 Vendors
0	27	11	٠.	43950 Campbell, Wilson & 1 a 20 Wilson, Lyttle & Bad-
*1	28	0	٠.	43951 S. G. Freeze, Calgary., 1 25 Annapolis Valley Vin-
	28	11	٠.	egar Mfg. Co., Bridgetown, N.S. 43952 J. T. Macdonald, Cal. 1 a., 40 Midland Vingar Co.
*1	28	O		43053 Howson, McEwen Co., 1 a 25 Crosse & Blackwell.
		0	• •	Baras J. J. Stacdonald, Cal- 1 a 40 Midland Vinegar Co.,

V	Ĭ	N	E	ì	Λ	F	ì

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d& Co.,

ARV =

.. Ltd ,

				Rest	LIS OF 2	Anai	1818,			
Inspector's Report, (Is not an expression of opinion),	Acetic Acid	Solids in 100 c c	Ash m	Reaction of Ash.	Chlorides	1	Sulphates.	Reaction with Sulph- metted Hydrogen.	Alcohol by Weight.	No. of Sample.

A. C. LARIVIERE, INSPECTOR.

	p.c.	p.c.	p.c.	, p.c.
*****				4584
	7/15	0.492	0°112 Alkaline	4584
	1-03	0.176	0.086	4584
			0.106 "	
	†			
	6:79	0 202	0 010 Alkaline	45850
	• • • • •			4585
				45859
	10/12	0:958	100 Alkaline.	45855
	10 44	1.646) 144, " "	45854

R. W. FLETCHER, INSPECTOR.

Malt Vinegar									439
White Wine Vinegar									439
Malt Vinegar		1	1		1		1		
									439
White Wine Vinegar	2.67	0.080	0.018	Alkaline	Trace		None	0.37	439
			i		Distinct traces.	traces	1	o·37	
	• • • • • •			• • • • • • • • • • • • • • • • • • • •					439
Cider Vinegar		· · · ·							439
falt Vinegar									439
								44	490

						7 7
	Treff.	Natur		Co-	×1.	Name and Address of Manufacturer or Furnisher as given by the Vendor.
	Figure 1 and 1 and 12 a	Sample.	Nature and Address of Vendor	Piantity.	Cents.	Manufacturer. Furnishe c.
						DISTRACT OF VANCOUVER
19	10,					
		Vinegar.	38064 B.C. Distillery Co., Ltd., Vancouver,	1 qt	25	¹ Venders
	12		38065 N. R. Estabrooks, Van	1	15	W. J. Pendray, Vic
*-	13		conver. 38066 London Grocery Co.,	1		toria, Stephens, Glocester
	13	4	Vancouver, 38067 Enquess Mfg.Co., Van-	1		Wilson Loatte, To
	13		38068 W. H. Walsh & Co.,	1		onto G. F. Sutton & Sons,
	13		Vancouver. 1 38069 A. Antipas, Vancouver	1		London, Eng. B.C. Distillery, Van
• •	13	٠	38070 T. W. Cardinal, Kit- silano, Vancouver.	1	25	COHVET.
	13		38071 Praser & McLeod, Kit-	1	15	
	13		silano, Vanconver. 38072 Gurchy & Carlaid, Fair	1	15	V.thconver.
	13		view, Vancouver, 38073 David Spencer, Ltd., Vancouver,	1	15	Wilsons Vancouver, W. K. Houston & Co., Victoria.
Maritime .		_				DISTRICT OF VICTORIA-
Oct.	12	Vinegar.	H955 Windsor Grocery Co.,	1 qt .	25	Grimble & Co., Ltd.,
**	12	44				London, Eng. Purnell, Bristol, Eng.
	12		44957 Saunders Grocery Co., Ltd., Victoria, B.C.	1	20	Rowat & Co., Glass
	12	**	41958 Copas & Young, Vic- toria, B.C.	1 α	25	gow and Liverpool. Crosse & Blackwell. London, Eng.
11	13		14959 H. O. Kirkham, Vies- toria, B.C.	1	25	K. G. Wilcocks, Lov.
	17		44260 E. G. Bailey, Victoria			Angeles, Cal. Empress Mfg Co
1/8	17	**	4961 F. F. Phinner, Vic-		15	Vancouver, B.C. B.C. Vinegar Works
	17		44962 Erskine & Co. Vic- toria, B.C	l a :	25	Vanconver, B.C. E. Lazenby & Son,
	17	*	44963 Harrison & McDanald	l = :	25	E. Lazemby & Son. Ltd., London, Eng W. K. Houston & Co.
	18		Victoria, B.C. 14964 L. Dickinson, Victoria, 1.C.	l n	20 1	White Cottells, Camberwell, London, Eng.

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Co.,

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Comparison Com	Inspector's Report, (Is not an expression of opinion).	RESULTS OF ANALYSIS.								
J. F. POWER, INSPECTOR.		Acette Acid,	Solids in lon-	Ash in Image.	Reaction of Ash.	Chloriden	in haten	beaction with Sulphuretted Hydrugen.	Jenhal hy Weight,	No. of Sample.
"Sunset "brand, Pure Cacadian vinegar, guaranteed pure and free from all mineral acids." Guaranteed pure malt vinegar. Guaranteed free from all mineral acids. Guaranteed free from all mineral acids. Guaranteed absolutely pure. Free from all mineral acids. Absolutely pure. Free from all mineral acids. Absolutely pure. Sason all mineral acids. O'SULLIVAN, INSPECTOR. Ialt Vinegar. Sason all translations are sason as a sason acid acid acid acid acid acid acid acid	J. F. POWER, INSP	ECTO	K.		turn Agin Addien unter Editablische von der vereinbeiten		,,	-		7.
Catachlan vinegar, guaranteed pure and free from all mineral acids.		le e	p c	p.e.	Marine and the second s					
Sagaranteed pure malt Sagaranteed free from all mineral acids. Sagaranteed free from all mineral acids. Sagaranteed absolutely pure. Sagaranteed absolutely pure. Free from all mineral acids. Sagaranteed absolutely pure. Sagaranteed absolutely pure Sagarantee	canadian vinegar, guaranteed pure and free from all mineral acids.									38064
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